

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: RYOSO MASAKI ET AL
Serial No.: NOT YET ASSIGNED
Filed: FEBRUARY 28, 2002
Title: MOTOR CONTROLLER

PRELIMINARY AMENDMENT

Box PATENT APPLICATION

Commissioner for Patents
Washington, D.C. 20231

Sir:

Please enter the following amendments to the claims prior to the examination of the application.

IN THE CLAIMS:

Please amend claims 14 and 15 as follows:

(A copy of the marked-up version of the amended claims are attached to this Preliminary Amendment).

14. (Amended) A motor controller according to Claim 3, wherein said controller has a detection phase changing unit for changing said detection phase by adding a zero-phase voltage to said voltage.

15. (Amended) A motor controller according to Claim 3, wherein said controller switches current detection timing according to a motor speed.

Please add new claims 19-23 as follows:

19. (new) A motor controller according to Claim 9, wherein said controller has a detection phase changing unit for changing said detection phase by adding a zero-phase voltage to said voltage.

20. (Amended) A motor controller according to Claim 11, wherein said controller has a detection phase changing unit for changing said detection phase by adding a zero-phase voltage to said voltage.

21. (Amended) A motor controller according to Claim 12, wherein said controller has a detection phase changing unit for changing said detection phase by adding a zero-phase voltage to said voltage.

22. (Amended) A motor controller according to Claim 13, wherein said controller has a detection phase changing unit for changing said detection phase by adding a zero-phase voltage to said voltage.

23. (new) A motor controller according to Claim 4, wherein said controller switches current detection timing according to a motor speed.

REMARKS


Entry of the amendments to the specification, claims and abstract before examination of the application is respectfully requested. These claims have been amended to remove multiple dependencies/These claims patentably define over the art of record.

If there are any questions regarding this Preliminary Amendment or this application in general, a telephone call to the undersigned would be appreciated since this should expedite the prosecution of the application for all concerned.

It is respectfully requested that, if necessary to effect a timely response, this paper be considered as a Petition for an Extension of Time sufficient to effect a timely response and shortages in other fees, be charged, or any overpayment in fees be credited, to the Account of Crowell & Moring, LLP, Deposit Account No. 05-1323 (Docket #381NP/50925).

Respectfully submitted,

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

Please amend claims 14 and 15 as follows:

14. (Amended) A motor controller according to [one of Claims 3, 9, 11, 12, and 13] Claim 3, wherein said controller has a detection phase changing unit for changing said detection phase by adding a zero-phase voltage to said voltage.

15. (Amended) A motor controller according to Claim 3 [or 4], wherein said controller switches current detection timing according to a motor speed.